**Part 1:** Give the name of the parent function and a sketch of how the graph of the function may look.

**Function Families** Name:

1. g(x) = x 2 – 1

2. f(x) = 

3. h(x) = 

6. g(x) = x3+ 3

7. g(x) = 

8. f(x) =  - 2

4. h(x) = 

5. g(x) = 3

9. f(x) = 

10. h(x) = 

12. h(x) = 6 (x + 9) 2

**Part 2:** Given an example of an equation represented by the following family of functions.

(Do not use any of the examples from #1 -12!)

1. Absolute value \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Square root \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Cubic \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Reciprocal \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Quadratic \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Part 3:** Name the parent function for each of the following graphs.

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 19. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

20. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 21. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_